

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	25 October 2022
Team ID	PNT2022TMID32816
Project Name	SmartFarmer-IoT Enabled SmartFarming Application.
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration (Mobile user)	USN-1	As a user, I can register for the application by entering my Username , password, and confirming my password.	1	Low	UBENDRAN.V, SHERIN BEGUM.M
Sprint-1	Login (Mobile user)	USN-2	As a user, I can log into the application by entering User name & password	3	High	NANDHINI.M, SIVASRI.S.M
Sprint-2	Dashboard (Mobile user)	USN-3	By entering correct password, I could access the dashboard	13	Medium	UBENDRAN.V
Sprint-3	Alert message (Mobile user)	USN-4	As a user, I receive alert message regarding the field parameters.	13	High	UBENDRAN.V, SHERIN BEGUM.M
Sprint-4	Data Storage (Mobile user)	USN-5	As a user, I will be able to store parameter values.	2	High	UBENDRAN.V, SHERIN BEGUM.M
Sprint-4	Decision (Mobile user)	USN-6	As a user, I can operate motor remotely using the mobile application.	8	High	NANDHINI.M, SIVASRI.S.M
Sprint-1	Login (web user)	USN-7	As a user, I can log in to the application.	13	High	UBENDRAN.V, SHERIN BEGUM.M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Dashboard (web user)	USN-8	I could access the dashboard	3	Medium	NANDHINI.M, SIVASRI.S.M
Sprint-3	Alert message (web user)	USN-9	As a user, I receive alert message regarding the field parameters.	5	High	UBENDRAN.V, SHERIN BEGUM.M
Sprint-4	Data Storage (web user)	USN-10	As a user, I will be able to store parameter values.	2	High	UBENDRAN.V, SHERIN BEGUM.M
Sprint-4	Decision (web user)	USN-11	As a user, I can operate motor remotely using the mobile application	8	High	NANDHINI.M, SIVASRI.S.M

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	13	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	18	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>